New Jersey ACCUTEST LABORATORIES

06/26/13

Technical Report for

Anderson, Mulholland & Associates

BMSMC, Building 5 Area, PR

SM04.00.06

Accutest Job Number: JB39039

Sampling Date: 06/05/13

Report to:

Anderson, Mulholland & Associates

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ATTN: Terry Taylor

Total number of pages in report: **54**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Nancy Cole
Laboratory Director

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Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), PA, RI, SC, TN, VA, WV

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Sample Summary

Anderson, Mulholland & Associates

Job No: JB39039

BMSMC, Building 5 Area, PR
Project No: SM04.00.06

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JB39039-1	06/05/13	11:00	RO	06/07/13	SO	Soil	A4-5 (6.5-7')
JB39039-2	06/05/13	11:20	RO	06/07/13	SO	Soil	B3-8 (6.5-7')
JB39039-3	06/05/13	11:50	RO	06/07/13	SO	Soil	A2-2 (6.5-7')
JB39039-4	06/05/13	13:45	RO	06/07/13	SO	Soil	B1-3 (6.5-7')
JB39039-4D	06/05/13	13:45	RO	06/07/13	SO	Soil Dup/MSD	B1-3 (6.5-7') MS DUP
JB39039-4S	06/05/13	13:45	RO	06/07/13	SO	Soil Matrix Spike	B1-3 (6.5-7') MS
JB39039-5	06/05/13	15:00	RO	06/07/13	SO	Soil	A3-8 (2-2.5')
JB39039-6	06/05/13	15:00	RO	06/07/13	SO	Soil	A3-8 (2-2.5') DUP
JB39039-7	06/05/13	15:30	RO	06/07/13	SO	Soil	B2-7 (2-2.5')
JB39039-8	06/05/13	14:40	RO	06/07/13	SO	Soil	B4-6 (2-2.5')
JB39039-9	06/05/13	16:00	RO	06/07/13	SO	Soil	A1-9 (2-2.5')
JB39039-10	06/05/13	15:45	RO	06/07/13	AQ	Field Blank Soil	FIELD BLANK
JB39039-11	06/05/13	16:00	RO	06/07/13	AQ	Trip Blank Soil	TRIP BLANK

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	Anderson, Mulholland & Associates	**Job No**	JB39039
Site:	BMSMC, Building 5 Area, PR	**Report Date**	6/25/2013 10:28:46 A

On 06/07/2013, 9 Sample(s), 1 Trip Blank(s) and 1 Field Blank(s) were received at Accutest Laboratories at a temperature of 5.5 C. Samples were intact and chemically preserved, unless noted below. An Accutest Job Number of JB39039 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** V2C4986

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB38631-3MS, JB38631-3MSD were used as the QC samples indicated.

Matrix: SO **Batch ID:** VD8572

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB39039-4MS, JB39039-4MSD were used as the QC samples indicated.
- Matrix Spike Recovery(s) for 4-Methyl-2-pentanone(MIBK), Acetone, Ethylbenzene, Xylene (total) are outside control limits. Outside control limits due to high level in sample relative to spike amount.
- JB39039-1: Diluted due to high concentration of target compound.

Matrix: SO **Batch ID:** VD8573

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB38948-4MS, JB38948-4MSD were used as the QC samples indicated.

Matrix: SO **Batch ID:** VD8574

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB39337-1MS, JB39337-1MSD were used as the QC samples indicated.

Matrix: SO **Batch ID:** VD8575

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB39695-8MS, JB39695-8MSD were used as the QC samples indicated.

Matrix: SO **Batch ID:** VD8577

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB38864-1MS, JB38864-1MSD were used as the QC samples indicated.

Matrix: SO **Batch ID:** VD8579

- All samples were analyzed within the recommended method holding time.

Volatiles by GCMS By Method SW846 8260B

Matrix: SO **Batch ID:** VD8579

- All method blanks for this batch meet method specific criteria.
- Sample(s) JB39451-25MS, JB39451-25MSD were used as the QC samples indicated.

Matrix: SO **Batch ID:** VE8987

- Sample(s) JB39451-3MS, JB39451-3MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- The following samples were run outside of holding time for method SW846 8260B: JB39039-6 Sample analyzed outside the holding time but the original run within holding time.
- JB39039-6: Sample analyzed outside the holding time but the original run within holding time.

Matrix: SO **Batch ID:** VI7485

- All samples were analyzed within the recommended method holding time.
- Sample(s) JB39912-1DUP, JB39912-2MS were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Volatiles by GC By Method SW846-8015C (DAI)

Matrix: AQ **Batch ID:** GGH4333

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB38962-1MS, JB38962-1MSD were used as the QC samples indicated.
- JB39039-10: (pH=6)Sample is not acid preservation per method / client criteria. Sample analyzed within 7 days holding time.

Matrix: LEACHATE **Batch ID:** GP72636

- Sample(s) GP72636-LB12, JB39039-2, JB39039-3 have surrogates outside control limits. Probable cause due to matrix interference.

Matrix: SO **Batch ID:** GGH4338

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB39039-4MS, JB39039-4MSD were used as the QC samples indicated.
- JB39039-8 for Methanol: More than 40 % RPD for detected concentrations between the two GC columns.

Matrix: SO **Batch ID:** GGH4341

- All samples were analyzed within the recommended method holding time.
- Sample(s) JB39287-1MS, JB39287-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Wet Chemistry By Method SM2540 G-97

Matrix: SO **Batch ID:** GN86503

- The data for SM2540 G-97 meets quality control requirements.

Accutest certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting Accutest's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

Accutest Laboratories is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by Accutest Laboratories indicated via signature on the report cover

Summary of Hits

Job Number: JB39039
Account: Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Collected: 06/05/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JB39039-1	**A4-5 (6.5-7')**					
Ethylbenzene [a]		1720	68	18	ug/kg	SW846 8260B
4-Methyl-2-pentanone(MIBK) [a]		4630	340	51	ug/kg	SW846 8260B
Toluene [a]		2560	68	7.2	ug/kg	SW846 8260B
Xylene (total) [a]		5520	68	9.5	ug/kg	SW846 8260B
JB39039-2	**B3-8 (6.5-7')**					
Acetone		30900 J	34000	5800	ug/kg	SW846 8260B
Benzene		31.4 J	69	8.2	ug/kg	SW846 8260B
Ethylbenzene		1070000	69000	18000	ug/kg	SW846 8260B
4-Methyl-2-pentanone(MIBK)		347000	17000	2600	ug/kg	SW846 8260B
Toluene		112000	3400	360	ug/kg	SW846 8260B
Xylene (total)		4350000	69000	9600	ug/kg	SW846 8260B
JB39039-3	**A2-2 (6.5-7')**					
Acetone		33900	28000	4700	ug/kg	SW846 8260B
Ethylbenzene		165000	2800	730	ug/kg	SW846 8260B
4-Methyl-2-pentanone(MIBK)		140000	14000	2100	ug/kg	SW846 8260B
Toluene		501	56	5.8	ug/kg	SW846 8260B
Xylene (total)		632000	2800	390	ug/kg	SW846 8260B
Methanol		3000	230	56	ug/kg	SW846-8015C (DAI)
Methanol		0.649	0.20	0.045	mg/l	SW846-8015C (DAI)
JB39039-4	**B1-3 (6.5-7')**					
Acetone		20700	5200	890	ug/kg	SW846 8260B
Ethylbenzene		28600	520	140	ug/kg	SW846 8260B
4-Methyl-2-pentanone(MIBK)		72400	2600	390	ug/kg	SW846 8260B
Toluene		268	52	5.5	ug/kg	SW846 8260B
Xylene (total)		115000	520	73	ug/kg	SW846 8260B
Methanol		2970	220	52	ug/kg	SW846-8015C (DAI)
JB39039-5	**A3-8 (2-2.5')**					
Acetone		14600 J	15000	2500	ug/kg	SW846 8260B
Ethylbenzene		93400	1500	380	ug/kg	SW846 8260B
4-Methyl-2-pentanone(MIBK)		62900	7300	1100	ug/kg	SW846 8260B
Toluene		4310	58	6.1	ug/kg	SW846 8260B
Xylene (total)		382000	1500	200	ug/kg	SW846 8260B
Methanol		51000	230	56	ug/kg	SW846-8015C (DAI)
Methanol		1.81	0.20	0.045	mg/l	SW846-8015C (DAI)

Summary of Hits

Job Number: JB39039
Account: Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Collected: 06/05/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JB39039-6	**A3-8 (2-2.5') DUP**					
Acetone		17500	11000	1900	ug/kg	SW846 8260B
Ethylbenzene		129000	1100	300	ug/kg	SW846 8260B
4-Methyl-2-pentanone(MIBK)		72100	5700	860	ug/kg	SW846 8260B
Toluene		5000	57	6.0	ug/kg	SW846 8260B
Xylene (total) [b]		483000	2900	400	ug/kg	SW846 8260B
Methanol		48500	240	57	ug/kg	SW846-8015C (DAI)
Methanol		1.84	0.20	0.045	mg/l	SW846-8015C (DAI)
JB39039-7	**B2-7 (2-2.5')**					
No hits reported in this sample.						
JB39039-8	**B4-6 (2-2.5')**					
Acetone		5560	730	120	ug/kg	SW846 8260B
Ethylbenzene		1100	73	19	ug/kg	SW846 8260B
4-Methyl-2-pentanone(MIBK)		13400	360	54	ug/kg	SW846 8260B
Xylene (total)		5710	73	10	ug/kg	SW846 8260B
Methanol [c]		9150	270	63	ug/kg	SW846-8015C (DAI)
Methanol		0.742	0.20	0.045	mg/l	SW846-8015C (DAI)
JB39039-9	**A1-9 (2-2.5')**					
Acetone		4160	540	91	ug/kg	SW846 8260B
Ethylbenzene		798	54	14	ug/kg	SW846 8260B
4-Methyl-2-pentanone(MIBK)		8370	270	40	ug/kg	SW846 8260B
Xylene (total)		3960	54	7.5	ug/kg	SW846 8260B
Methanol		3250	220	54	ug/kg	SW846-8015C (DAI)
Methanol		0.614	0.20	0.045	mg/l	SW846-8015C (DAI)
JB39039-10	**FIELD BLANK**					
No hits reported in this sample.						
JB39039-11	**TRIP BLANK**					
No hits reported in this sample.						

(a) Diluted due to high concentration of target compound.
(b) Sample analyzed outside the holding time but the original run within holding time.
(c) More than 40 % RPD for detected concentrations between the two GC columns.

New Jersey ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	A4-5 (6.5-7')		
Lab Sample ID:	JB39039-1	**Date Sampled:**	06/05/13
Matrix:	SO - Soil	**Date Received:**	06/07/13
Method:	SW846 8260B SW846 5035	**Percent Solids:**	78.6
Project:	BMSMC, Building 5 Area, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	D210018.D	1	06/14/13	ET	06/07/13 15:00	n/a	VD8572
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.8 g	5.0 ml	100 ul
Run #2			

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	680	120	ug/kg	
71-43-2	Benzene	ND	68	8.1	ug/kg	
100-41-4	Ethylbenzene	1720	68	18	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	4630	340	51	ug/kg	
108-88-3	Toluene	2560	68	7.2	ug/kg	
1330-20-7	Xylene (total)	5520	68	9.5	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		65-131%
17060-07-0	1,2-Dichloroethane-D4	108%		70-121%
2037-26-5	Toluene-D8	109%		80-128%
460-00-4	4-Bromofluorobenzene	104%		67-131%

(a) Diluted due to high concentration of target compound.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	A4-5 (6.5-7')		
Lab Sample ID:	JB39039-1	**Date Sampled:**	06/05/13
Matrix:	SO - Soil	**Date Received:**	06/07/13
Method:	SW846-8015C (DAI)	**Percent Solids:**	78.6
Project:	BMSMC, Building 5 Area, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GH93594.D	1	06/14/13	XPL	n/a	n/a	GGH4341
Run #2							

	Initial Weight
Run #1	5.0 g
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
67-56-1	Methanol	ND	250	61	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
111-27-3	Hexanol	88%		58-133%
111-27-3	Hexanol	85%		58-133%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	A4-5 (6.5-7')		
Lab Sample ID:	JB39039-1	**Date Sampled:**	06/05/13
Matrix:	SO - Soil	**Date Received:**	06/07/13
Method:	SW846-8015C (DAI) SW846 1311	**Percent Solids:**	78.6
Project:	BMSMC, Building 5 Area, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GH93581.D	1	06/14/13	XPL	06/10/13	GP72636	GGH4339
Run #2							

TCLP Leachate method SW846 1311

CAS No.	Compound	Result	HW#	MCL	RL	MDL	Units	Q
67-56-1	Methanol	ND			0.20	0.045	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
111-27-3	Hexanol	96%		72-125%
111-27-3	Hexanol	116%		72-125%

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 261 6/96)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	A4-5 (6.5-7')		
Lab Sample ID:	JB39039-1	**Date Sampled:**	06/05/13
Matrix:	SO - Soil	**Date Received:**	06/07/13
		Percent Solids:	78.6
Project:	BMSMC, Building 5 Area, PR		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Moisture, Percent	21.4		%	1	06/11/13 15:00	WR	SM2540 G-97

RL = Reporting Limit

Report of Analysis

Client Sample ID:	B3-8 (6.5-7')		
Lab Sample ID:	JB39039-2	**Date Sampled:**	06/05/13
Matrix:	SO - Soil	**Date Received:**	06/07/13
Method:	SW846 8260B SW846 5035	**Percent Solids:**	76.6
Project:	BMSMC, Building 5 Area, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	D210050.D	1	06/14/13	ET	06/07/13 15:00	n/a	VD8573
Run #2	D210019.D	1	06/14/13	ET	06/07/13 15:00	n/a	VD8572
Run #3	D210051.D	10	06/14/13	ET	06/07/13 15:00	n/a	VD8573

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	6.1 g	5.0 ml	2.0 ul
Run #2	6.1 g	5.0 ml	100 ul
Run #3	6.1 g	5.0 ml	1.0 ul

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	30900	34000	5800	ug/kg	J
71-43-2	Benzene	31.4 [a]	69	8.2	ug/kg	J
100-41-4	Ethylbenzene	1070000 [b]	69000	18000	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	347000	17000	2600	ug/kg	
108-88-3	Toluene	112000	3400	360	ug/kg	
1330-20-7	Xylene (total)	4350000 [b]	69000	9600	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
1868-53-7	Dibromofluoromethane	103%	106%	103%	65-131%
17060-07-0	1,2-Dichloroethane-D4	106%	109%	106%	70-121%
2037-26-5	Toluene-D8	113%	116%	108%	80-128%
460-00-4	4-Bromofluorobenzene	108%	114%	109%	67-131%

(a) Result is from Run# 2
(b) Result is from Run# 3

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B3-8 (6.5-7')		
Lab Sample ID:	JB39039-2	**Date Sampled:**	06/05/13
Matrix:	SO - Soil	**Date Received:**	06/07/13
Method:	SW846-8015C (DAI)	**Percent Solids:**	76.6
Project:	BMSMC, Building 5 Area, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GH93595.D	1	06/14/13	XPL	n/a	n/a	GGH4341
Run #2							

	Initial Weight
Run #1	5.0 g
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
67-56-1	Methanol	ND	260	62	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
111-27-3	Hexanol	102%		58-133%
111-27-3	Hexanol	95%		58-133%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B3-8 (6.5-7')		
Lab Sample ID:	JB39039-2	**Date Sampled:**	06/05/13
Matrix:	SO - Soil	**Date Received:**	06/07/13
Method:	SW846-8015C (DAI) SW846 1311	**Percent Solids:**	76.6
Project:	BMSMC, Building 5 Area, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GH93582.D	1	06/14/13	XPL	06/10/13	GP72636	GGH4339
Run #2							

TCLP Leachate method SW846 1311

CAS No.	Compound	Result	HW#	MCL	RL	MDL	Units	Q
67-56-1	Methanol	ND			0.20	0.045	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
111-27-3	Hexanol	96%		72-125%
111-27-3	Hexanol	128%		72-125%

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 261 6/96)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B3-8 (6.5-7')		
Lab Sample ID:	JB39039-2	**Date Sampled:**	06/05/13
Matrix:	SO - Soil	**Date Received:**	06/07/13
		Percent Solids:	76.6
Project:	BMSMC, Building 5 Area, PR		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Moisture, Percent	23.4		%	1	06/11/13 15:00	WR	SM2540 G-97

RL = Reporting Limit

Report of Analysis

Client Sample ID:	A2-2 (6.5-7')		
Lab Sample ID:	JB39039-3	**Date Sampled:**	06/05/13
Matrix:	SO - Soil	**Date Received:**	06/07/13
Method:	SW846 8260B SW846 5035	**Percent Solids:**	85.6
Project:	BMSMC, Building 5 Area, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	D210052.D	1	06/14/13	ET	06/07/13 15:00	n/a	VD8573
Run #2	D210020.D	1	06/14/13	ET	06/07/13 15:00	n/a	VD8572

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	6.2 g	5.0 ml	2.0 ul
Run #2	6.2 g	5.0 ml	100 ul

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	33900	28000	4700	ug/kg	
71-43-2	Benzene	ND [a]	56	6.6	ug/kg	
100-41-4	Ethylbenzene	165000	2800	730	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	140000	14000	2100	ug/kg	
108-88-3	Toluene	501 [a]	56	5.8	ug/kg	
1330-20-7	Xylene (total)	632000	2800	390	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%	105%	65-131%
17060-07-0	1,2-Dichloroethane-D4	108%	113%	70-121%
2037-26-5	Toluene-D8	109%	112%	80-128%
460-00-4	4-Bromofluorobenzene	109%	109%	67-131%

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	A2-2 (6.5-7')		
Lab Sample ID:	JB39039-3	**Date Sampled:**	06/05/13
Matrix:	SO - Soil	**Date Received:**	06/07/13
Method:	SW846-8015C (DAI)	**Percent Solids:**	85.6
Project:	BMSMC, Building 5 Area, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GH93596.D	1	06/14/13	XPL	n/a	n/a	GGH4341
Run #2							

	Initial Weight
Run #1	5.0 g
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
67-56-1	Methanol	3000	230	56	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
111-27-3	Hexanol	94%		58-133%
111-27-3	Hexanol	94%		58-133%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	A2-2 (6.5-7')		
Lab Sample ID:	JB39039-3	**Date Sampled:**	06/05/13
Matrix:	SO - Soil	**Date Received:**	06/07/13
Method:	SW846-8015C (DAI) SW846 1311	**Percent Solids:**	85.6
Project:	BMSMC, Building 5 Area, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GH93583.D	1	06/14/13	XPL	06/10/13	GP72636	GGH4339
Run #2							

TCLP Leachate method SW846 1311

CAS No.	Compound	Result	HW#	MCL	RL	MDL	Units	Q
67-56-1	Methanol	0.649			0.20	0.045	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
111-27-3	Hexanol	98%		72-125%
111-27-3	Hexanol	130%		72-125%

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 261 6/96)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	A2-2 (6.5-7')		
Lab Sample ID:	JB39039-3	**Date Sampled:**	06/05/13
Matrix:	SO - Soil	**Date Received:**	06/07/13
		Percent Solids:	85.6
Project:	BMSMC, Building 5 Area, PR		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Moisture, Percent	14.4		%	1	06/11/13 15:00	WR	SM2540 G-97

RL = Reporting Limit

Report of Analysis

Client Sample ID:	B1-3 (6.5-7')		
Lab Sample ID:	JB39039-4	**Date Sampled:**	06/05/13
Matrix:	SO - Soil	**Date Received:**	06/07/13
Method:	SW846 8260B SW846 5035	**Percent Solids:**	86.4
Project:	BMSMC, Building 5 Area, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	D210053.D	1	06/14/13	ET	06/07/13 15:00	n/a	VD8573
Run #2	D210017.D	1	06/14/13	ET	06/07/13 15:00	n/a	VD8572

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	6.5 g	5.0 ml	10.0 ul
Run #2	6.5 g	5.0 ml	100 ul

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	20700	5200	890	ug/kg	
71-43-2	Benzene	ND [a]	52	6.2	ug/kg	
100-41-4	Ethylbenzene	28600	520	140	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	72400	2600	390	ug/kg	
108-88-3	Toluene	268 [a]	52	5.5	ug/kg	
1330-20-7	Xylene (total)	115000	520	73	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%	102%	65-131%
17060-07-0	1,2-Dichloroethane-D4	109%	109%	70-121%
2037-26-5	Toluene-D8	108%	113%	80-128%
460-00-4	4-Bromofluorobenzene	110%	106%	67-131%

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B1-3 (6.5-7')		
Lab Sample ID:	JB39039-4	**Date Sampled:**	06/05/13
Matrix:	SO - Soil	**Date Received:**	06/07/13
Method:	SW846-8015C (DAI)	**Percent Solids:**	86.4
Project:	BMSMC, Building 5 Area, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GH93552.D	1	06/13/13	XPL	n/a	n/a	GGH4338
Run #2							

	Initial Weight
Run #1	5.3 g
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
67-56-1	Methanol	2970	220	52	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
111-27-3	Hexanol	122%		58-133%
111-27-3	Hexanol	110%		58-133%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B1-3 (6.5-7')		
Lab Sample ID:	JB39039-4	**Date Sampled:**	06/05/13
Matrix:	SO - Soil	**Date Received:**	06/07/13
Method:	SW846-8015C (DAI) SW846 1311	**Percent Solids:**	86.4
Project:	BMSMC, Building 5 Area, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GH93571.D	1	06/14/13	XPL	06/10/13	GP72636	GGH4339
Run #2							

TCLP Leachate method SW846 1311

CAS No.	Compound	Result	HW#	MCL	RL	MDL	Units	Q
67-56-1	Methanol	ND			0.20	0.045	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
111-27-3	Hexanol	82%		72-125%
111-27-3	Hexanol	84%		72-125%

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 261 6/96)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B1-3 (6.5-7')		
Lab Sample ID:	JB39039-4	**Date Sampled:**	06/05/13
Matrix:	SO - Soil	**Date Received:**	06/07/13
		Percent Solids:	86.4
Project:	BMSMC, Building 5 Area, PR		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Moisture, Percent	13.6		%	1	06/11/13 15:00	WR	SM2540 G-97

RL = Reporting Limit

Report of Analysis

Client Sample ID:	A3-8 (2-2.5')		
Lab Sample ID:	JB39039-5	**Date Sampled:**	06/05/13
Matrix:	SO - Soil	**Date Received:**	06/07/13
Method:	SW846 8260B SW846 5035	**Percent Solids:**	82.3
Project:	BMSMC, Building 5 Area, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	D210054.D	1	06/14/13	ET	06/07/13 14:00	n/a	VD8573
Run #2	D210021.D	1	06/14/13	ET	06/07/13 14:00	n/a	VD8572

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	6.4 g	5.0 ml	4.0 ul
Run #2	6.4 g	5.0 ml	100 ul

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	14600	15000	2500	ug/kg	J
71-43-2	Benzene	ND [a]	58	6.9	ug/kg	
100-41-4	Ethylbenzene	93400	1500	380	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	62900	7300	1100	ug/kg	
108-88-3	Toluene	4310 [a]	58	6.1	ug/kg	
1330-20-7	Xylene (total)	382000	1500	200	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%	109%	65-131%
17060-07-0	1,2-Dichloroethane-D4	109%	117%	70-121%
2037-26-5	Toluene-D8	107%	113%	80-128%
460-00-4	4-Bromofluorobenzene	110%	106%	67-131%

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	A3-8 (2-2.5')		
Lab Sample ID:	JB39039-5	**Date Sampled:**	06/05/13
Matrix:	SO - Soil	**Date Received:**	06/07/13
Method:	SW846-8015C (DAI)	**Percent Solids:**	82.3
Project:	BMSMC, Building 5 Area, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GH93555.D	1	06/13/13	XPL	n/a	n/a	GGH4338
Run #2							

	Initial Weight
Run #1	5.2 g
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
67-56-1	Methanol	51000	230	56	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
111-27-3	Hexanol	130%		58-133%
111-27-3	Hexanol	125%		58-133%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	A3-8 (2-2.5')		
Lab Sample ID:	JB39039-5	**Date Sampled:**	06/05/13
Matrix:	SO - Soil	**Date Received:**	06/07/13
Method:	SW846-8015C (DAI) SW846 1311	**Percent Solids:**	82.3
Project:	BMSMC, Building 5 Area, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GH93574.D	1	06/14/13	XPL	06/10/13	GP72636	GGH4339
Run #2							

TCLP Leachate method SW846 1311

CAS No.	Compound	Result	HW#	MCL	RL	MDL	Units	Q
67-56-1	Methanol	1.81			0.20	0.045	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
111-27-3	Hexanol	94%		72-125%
111-27-3	Hexanol	92%		72-125%

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 261 6/96)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	A3-8 (2-2.5')		
Lab Sample ID:	JB39039-5	**Date Sampled:**	06/05/13
Matrix:	SO - Soil	**Date Received:**	06/07/13
		Percent Solids:	82.3
Project:	BMSMC, Building 5 Area, PR		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Moisture, Percent	17.7		%	1	06/11/13 15:00	WR	SM2540 G-97

RL = Reporting Limit

Report of Analysis

Client Sample ID:	A3-8 (2-2.5') DUP		
Lab Sample ID:	JB39039-6	**Date Sampled:**	06/05/13
Matrix:	SO - Soil	**Date Received:**	06/07/13
Method:	SW846 8260B SW846 5035	**Percent Solids:**	84.1
Project:	BMSMC, Building 5 Area, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	D210117.D	1	06/17/13	ET	06/07/13 14:00	n/a	VD8577
Run #2	D210075.D	1	06/15/13	ET	06/07/13 14:00	n/a	VD8574
Run #3 [a]	E204492.D	1	06/20/13	OTR	06/07/13 14:00	n/a	VE8987

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	6.2 g	5.0 ml	5.0 ul
Run #2	6.2 g	5.0 ml	100 ul
Run #3	6.2 g	5.0 ml	2.0 ul

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	17500	11000	1900	ug/kg	
71-43-2	Benzene	ND [b]	57	6.8	ug/kg	
100-41-4	Ethylbenzene	129000	1100	300	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	72100	5700	860	ug/kg	
108-88-3	Toluene	5000 [b]	57	6.0	ug/kg	
1330-20-7	Xylene (total)	483000 [c]	2900	400	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
1868-53-7	Dibromofluoromethane	107%	106%	83%	65-131%
17060-07-0	1,2-Dichloroethane-D4	106%	106%	87%	70-121%
2037-26-5	Toluene-D8	111%	113%	95%	80-128%
460-00-4	4-Bromofluorobenzene	110%	104%	91%	67-131%

(a) Sample analyzed outside the holding time but the original run within holding time.
(b) Result is from Run# 2
(c) Result is from Run# 3

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	A3-8 (2-2.5') DUP		
Lab Sample ID:	JB39039-6	**Date Sampled:**	06/05/13
Matrix:	SO - Soil	**Date Received:**	06/07/13
Method:	SW846-8015C (DAI)	**Percent Solids:**	84.1
Project:	BMSMC, Building 5 Area, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GH93556.D	1	06/13/13	XPL	n/a	n/a	GGH4338
Run #2							

	Initial Weight
Run #1	5.0 g
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
67-56-1	Methanol	48500	240	57	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
111-27-3	Hexanol	100%		58-133%
111-27-3	Hexanol	95%		58-133%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	A3-8 (2-2.5') DUP		
Lab Sample ID:	JB39039-6	**Date Sampled:**	06/05/13
Matrix:	SO - Soil	**Date Received:**	06/07/13
Method:	SW846-8015C (DAI) SW846 1311	**Percent Solids:**	84.1
Project:	BMSMC, Building 5 Area, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GH93575.D	1	06/14/13	XPL	06/10/13	GP72636	GGH4339
Run #2							

TCLP Leachate method SW846 1311

CAS No.	Compound	Result	HW#	MCL	RL	MDL	Units	Q
67-56-1	Methanol	1.84			0.20	0.045	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
111-27-3	Hexanol	92%		72-125%
111-27-3	Hexanol	104%		72-125%

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 261 6/96)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	A3-8 (2-2.5') DUP		
Lab Sample ID:	JB39039-6	**Date Sampled:**	06/05/13
Matrix:	SO - Soil	**Date Received:**	06/07/13
		Percent Solids:	84.1
Project:	BMSMC, Building 5 Area, PR		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Moisture, Percent	15.9		%	1	06/11/13 15:00	WR	SM2540 G-97

RL = Reporting Limit

Report of Analysis

Client Sample ID:	B2-7 (2-2.5')		
Lab Sample ID:	JB39039-7	**Date Sampled:**	06/05/13
Matrix:	SO - Soil	**Date Received:**	06/07/13
Method:	SW846 8260B SW846 5035	**Percent Solids:**	83.7
Project:	BMSMC, Building 5 Area, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I185279.D	1	06/19/13	SJM	06/07/13 14:00	n/a	VI7485
Run #2							

	Initial Weight
Run #1	5.0 g
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	12	2.0	ug/kg	
71-43-2	Benzene	ND	1.2	0.14	ug/kg	
100-41-4	Ethylbenzene	ND	1.2	0.31	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	6.0	0.90	ug/kg	
108-88-3	Toluene	ND	1.2	0.13	ug/kg	
1330-20-7	Xylene (total)	ND	1.2	0.17	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		65-131%
17060-07-0	1,2-Dichloroethane-D4	97%		70-121%
2037-26-5	Toluene-D8	100%		80-128%
460-00-4	4-Bromofluorobenzene	101%		67-131%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B2-7 (2-2.5')		
Lab Sample ID:	JB39039-7	**Date Sampled:**	06/05/13
Matrix:	SO - Soil	**Date Received:**	06/07/13
Method:	SW846-8015C (DAI)	**Percent Solids:**	83.7
Project:	BMSMC, Building 5 Area, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GH93557.D	1	06/13/13	XPL	n/a	n/a	GGH4338
Run #2							

	Initial Weight
Run #1	5.1 g
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
67-56-1	Methanol	ND	230	56	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
111-27-3	Hexanol	129%		58-133%
111-27-3	Hexanol	118%		58-133%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B2-7 (2-2.5')		
Lab Sample ID:	JB39039-7	**Date Sampled:**	06/05/13
Matrix:	SO - Soil	**Date Received:**	06/07/13
Method:	SW846-8015C (DAI) SW846 1311	**Percent Solids:**	83.7
Project:	BMSMC, Building 5 Area, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GH93576.D	1	06/14/13	XPL	06/10/13	GP72636	GGH4339
Run #2							

TCLP Leachate method SW846 1311

CAS No.	Compound	Result	HW#	MCL	RL	MDL	Units	Q
67-56-1	Methanol	ND			0.20	0.045	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
111-27-3	Hexanol	98%		72-125%
111-27-3	Hexanol	120%		72-125%

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 261 6/96)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B2-7 (2-2.5')		
Lab Sample ID:	JB39039-7	**Date Sampled:**	06/05/13
Matrix:	SO - Soil	**Date Received:**	06/07/13
		Percent Solids:	83.7
Project:	BMSMC, Building 5 Area, PR		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Moisture, Percent	16.3		%	1	06/11/13 15:00	WR	SM2540 G-97

RL = Reporting Limit

Report of Analysis

Client Sample ID:	B4-6 (2-2.5')		
Lab Sample ID:	JB39039-8	**Date Sampled:**	06/05/13
Matrix:	SO - Soil	**Date Received:**	06/07/13
Method:	SW846 8260B SW846 5035	**Percent Solids:**	75.4
Project:	BMSMC, Building 5 Area, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	D210159.D	1	06/18/13	ET	06/07/13 14:00	n/a	VD8579
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.9 g	5.0 ml	100 ul
Run #2			

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	5560	730	120	ug/kg	
71-43-2	Benzene	ND	73	8.6	ug/kg	
100-41-4	Ethylbenzene	1100	73	19	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	13400	360	54	ug/kg	
108-88-3	Toluene	ND	73	7.6	ug/kg	
1330-20-7	Xylene (total)	5710	73	10	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		65-131%
17060-07-0	1,2-Dichloroethane-D4	107%		70-121%
2037-26-5	Toluene-D8	111%		80-128%
460-00-4	4-Bromofluorobenzene	103%		67-131%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B4-6 (2-2.5')		
Lab Sample ID:	JB39039-8	**Date Sampled:**	06/05/13
Matrix:	SO - Soil	**Date Received:**	06/07/13
Method:	SW846-8015C (DAI)	**Percent Solids:**	75.4
Project:	BMSMC, Building 5 Area, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GH93558.D	1	06/13/13	XPL	n/a	n/a	GGH4338
Run #2							

	Initial Weight
Run #1	5.0 g
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
67-56-1	Methanol [a]	9150	270	63	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
111-27-3	Hexanol	132%		58-133%
111-27-3	Hexanol	121%		58-133%

(a) More than 40 % RPD for detected concentrations between the two GC columns.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B4-6 (2-2.5')		
Lab Sample ID:	JB39039-8	**Date Sampled:**	06/05/13
Matrix:	SO - Soil	**Date Received:**	06/07/13
Method:	SW846-8015C (DAI) SW846 1311	**Percent Solids:**	75.4
Project:	BMSMC, Building 5 Area, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GH93577.D	1	06/14/13	XPL	06/10/13	GP72636	GGH4339
Run #2							

TCLP Leachate method SW846 1311

CAS No.	Compound	Result	HW#	MCL	RL	MDL	Units	Q
67-56-1	Methanol	0.742			0.20	0.045	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
111-27-3	Hexanol	100%		72-125%
111-27-3	Hexanol	100%		72-125%

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 261 6/96)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B4-6 (2-2.5')		
Lab Sample ID:	JB39039-8	**Date Sampled:**	06/05/13
Matrix:	SO - Soil	**Date Received:**	06/07/13
		Percent Solids:	75.4
Project:	BMSMC, Building 5 Area, PR		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Moisture, Percent	24.6		%	1	06/11/13 15:00	WR	SM2540 G-97

RL = Reporting Limit

Report of Analysis

Client Sample ID:	A1-9 (2-2.5')		
Lab Sample ID:	JB39039-9	**Date Sampled:**	06/05/13
Matrix:	SO - Soil	**Date Received:**	06/07/13
Method:	SW846 8260B SW846 5035	**Percent Solids:**	85.7
Project:	BMSMC, Building 5 Area, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	D210095.D	1	06/15/13	ET	06/07/13 14:00	n/a	VD8575
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	6.4 g	5.0 ml	100 ul
Run #2			

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	4160	540	91	ug/kg	
71-43-2	Benzene	ND	54	6.4	ug/kg	
100-41-4	Ethylbenzene	798	54	14	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	8370	270	40	ug/kg	
108-88-3	Toluene	ND	54	5.7	ug/kg	
1330-20-7	Xylene (total)	3960	54	7.5	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		65-131%
17060-07-0	1,2-Dichloroethane-D4	105%		70-121%
2037-26-5	Toluene-D8	108%		80-128%
460-00-4	4-Bromofluorobenzene	105%		67-131%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	A1-9 (2-2.5')		
Lab Sample ID:	JB39039-9	**Date Sampled:**	06/05/13
Matrix:	SO - Soil	**Date Received:**	06/07/13
Method:	SW846-8015C (DAI)	**Percent Solids:**	85.7
Project:	BMSMC, Building 5 Area, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GH93559.D	1	06/13/13	XPL	n/a	n/a	GGH4338
Run #2							

	Initial Weight
Run #1	5.2 g
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
67-56-1	Methanol	3250	220	54	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
111-27-3	Hexanol	114%		58-133%
111-27-3	Hexanol	109%		58-133%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	A1-9 (2-2.5')		
Lab Sample ID:	JB39039-9	**Date Sampled:**	06/05/13
Matrix:	SO - Soil	**Date Received:**	06/07/13
Method:	SW846-8015C (DAI) SW846 1311	**Percent Solids:**	85.7
Project:	BMSMC, Building 5 Area, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GH93580.D	1	06/14/13	XPL	06/10/13	GP72636	GGH4339
Run #2							

TCLP Leachate method SW846 1311

CAS No.	Compound	Result	HW#	MCL	RL	MDL	Units	Q
67-56-1	Methanol	0.614			0.20	0.045	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
111-27-3	Hexanol	98%		72-125%
111-27-3	Hexanol	92%		72-125%

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 261 6/96)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	A1-9 (2-2.5')		
Lab Sample ID:	JB39039-9	**Date Sampled:**	06/05/13
Matrix:	SO - Soil	**Date Received:**	06/07/13
		Percent Solids:	85.7
Project:	BMSMC, Building 5 Area, PR		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Moisture, Percent	14.3		%	1	06/11/13 15:00	WR	SM2540 G-97

RL = Reporting Limit

Report of Analysis

Client Sample ID:	FIELD BLANK		
Lab Sample ID:	JB39039-10	**Date Sampled:**	06/05/13
Matrix:	AQ - Field Blank Soil	**Date Received:**	06/07/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2C108739.D	1	06/14/13	DR	n/a	n/a	V2C4986
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		80-119%
17060-07-0	1,2-Dichloroethane-D4	92%		74-122%
2037-26-5	Toluene-D8	102%		80-120%
460-00-4	4-Bromofluorobenzene	99%		76-116%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FIELD BLANK		
Lab Sample ID:	JB39039-10	**Date Sampled:**	06/05/13
Matrix:	AQ - Field Blank Soil	**Date Received:**	06/07/13
Method:	SW846-8015C (DAI)	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	GH93475.D	1	06/11/13	XPL	n/a	n/a	GGH4333
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
67-56-1	Methanol	ND	200	45	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
111-27-3	Hexanol	106%		48-150%
111-27-3	Hexanol	95%		48-150%

(a) (pH = 6)Sample is not acid preservation per method / client criteria. Sample analyzed within 7 days holding time.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FIELD BLANK		
Lab Sample ID:	JB39039-10	**Date Sampled:**	06/05/13
Matrix:	AQ - Field Blank Soil	**Date Received:**	06/07/13
Method:	SW846-8015C (DAI) SW846 1311	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GH93588.D	1	06/14/13	XPL	06/11/13	GP72714	GGH4340
Run #2							

TCLP Leachate method SW846 1311

CAS No.	Compound	Result	HW#	MCL	RL	MDL	Units	Q
67-56-1	Methanol	ND			0.20	0.045	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
111-27-3	Hexanol	98%		72-125%
111-27-3	Hexanol	100%		72-125%

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 261 6/96)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	JB39039-11	**Date Sampled:**	06/05/13
Matrix:	AQ - Trip Blank Soil	**Date Received:**	06/07/13
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2C108740.D	1	06/14/13	DR	n/a	n/a	V2C4986
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		80-119%
17060-07-0	1,2-Dichloroethane-D4	92%		74-122%
2037-26-5	Toluene-D8	103%		80-120%
460-00-4	4-Bromofluorobenzene	100%		76-116%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

New Jersey ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

ACCUTEST LABORATORIES

SLC FB WTB

CHAIN OF CUSTODY

2235 Route 130, Dayton, NJ 08810
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PAGE 1 OF 2

FED-EX Tracking #	7999 3390 7033	Bottle Order Control #	
Accutest Quote #		Accutest Job #	JB39039

Client / Reporting Information

Company Name: AMAI
Street Address: 110 Corporate Park Drive
City: White Plains State: NY Zip: 10604
Project Contact: Terry Taylor E-mail: ttaylor@amaiconsult.com
Phone #: 914 251 0400 x309 Fax #:
Sampler(s) Name(s): RO Phone #: x305

Project Information

Project Name: BMS - Biopile Sampling
Street: KM 77, Road 3
City: Humacao State: PR
Project #:
Client Purchase Order #:
Project Manager:

Billing Information (if different from Report to)
Company Name:
Street Address:
City: State: Zip:
Attention:

Requested Analysis (see TEST CODE sheet): % Moist; D8015 Meth; D8015 TCLP Meth; VO Special List; * 3 Encores per sample 6/21/13

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Date	Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	Amber	% Moist	D8015 Meth	D8015 TCLP Meth	VO Special List	*	LAB USE ONLY
1	A4-5 (6.5-7')		6/5/13	1100	RO	SO	7					3			3	1	X	X	X	X	*	
2	B3-8 (6.5-7')		6/5/13	1120	RO	SO	7					3			3	1	X	X	X	X		800
3	A2-2 (6.5-7')		6/5/13	1150	RO	SO	7					3			3	1	X	X	X	X		
4	B1-3 (6.5-7')		6/5/13	1345	RO	SO	7					3			3	1	X	X	X	X		D6
	B1-3 (6.5-7') MS		6/5/13	1345	RO	SO	7					3			3	1	X	X	X	X		19N1
	B1-3 (6.5-7') MS Dup		6/5/13	1345	RO	SO	7					3			3	1	X	X	X	X		M4ST3
5	A3-8 (2-2.5')		6/5/13	1500	RO	SO	7					3			3	1	X	X	X	X		14W2
6	A3-8 (2-2.5') Dup		6/5/13	1500	RO	SO	7					3			3	1	X	X	X	X		4945
7	B2-7 (2-2.5')		6/5/13	1530	RO	SO	7					3			3	1	X	X	X	X		
8	B4-6 (2-2.5')		6/5/13	1440	RO	SO	7					3			3	1	X	X	X	X		
9	A1-9 (2-2.5')		6/5/13	1600	RO	SO	7					3			3	1	X	X	X	X	↓	
10	Field Blank		6/5/13	1545	RO	BW	6	4				2						X	X	X		

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; SED - Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB - Field Blank; EB - Equipment Blank; RB - Rinse Blank; TB - Trip Blank

Turnaround Time (Business days)

- [X] Std. 10 Business Days
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [ ] other

Emergency & Rush T/A data available VIA Lablink

Approved By (Accutest PM): / Date:

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [X] FULLT1 (Level 3+4)
- [ ] NJ Reduced
- [ ] Commercial "C"
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] State Forms
- [ ] EDD Format
- [ ] Other

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
NJ Reduced = Results + QC Summary + Partial Raw data

Comments / Special Instructions

Some 60ml clear jars may have incorrect labels in terms of Analysis; though each set has correct number & types of jars. - RO

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 RJ O'Neill	6/5/13 1700	1 FedEx	2 FedEx	6/7/13 1000	2 [signature]
Relinquished by Sampler: 3	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal #	☐ Intact ☐ Not intact	Preserved where applicable ☑ On Ice ☑ Cooler Temp. 5.5°C

5.1

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JB39039: Chain of Custody
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FED-EX Tracking #: 7999 7399 8152
Bottle Order Control #:
Accutest Quote #:
Accutest Job #: JB39039

Client / Reporting Information

Company Name: AMAI
Street Address: 110 Corporate Park Drive
City, State, Zip: White Plains, NY 10604
Project Contact: Terry Taylor
E-mail: ttaylor@amaiconsult.com
Phone #: 914 251 0400 x 309
Fax #: 914 251 1286
Sampler(s) Name(s): RO
Phone #: x305

Project Information

Project Name: BMS - Biopile Sampling
Street: KM 77, Road 3
City: Humacao
State: PR
Project #:
Client Purchase Order #:
Project Manager:

Billing Information (if different from Report to)
Company Name:
Street Address:
City: State: Zip:
Attention:

Requested Analysis (see TEST CODE sheet)

VO Special List

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	VO Special List	LAB USE ONLY
-11	Trip Blank		6/5/13	1600	RO	BW	2	X								X	

Matrix Codes:
DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB-Field Blank
EB-Equipment Blank
RB- Rinse Blank
TB-Trip Blank

Turnaround Time (Business days)

- [X] Std. 10 Business Days
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [ ] other ________

Emergency & Rush T/A data available VIA Lablink

Approved By (Accutest PM): / Date:

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [X] FULLT1 (Level 3+4)
- [ ] NJ Reduced
- [ ] Commercial "C"
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] State Forms
- [ ] EDD Format ________
- [ ] Other ________

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
NJ Reduced = Results + QC Summary + Partial Raw data

Comments / Special Instructions

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 RO	6/5/13 1700	1 FedEx	2 FedEx	6/7/13 1000	2 [signature]
Relinquished by Sampler: 3	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal #	☐ Intact ☐ Not intact	Preserved where applicable ☑ On Ice ☑ Cooler Temp. 1.5.8°C

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JB39039: Chain of Custody
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5.1
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Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB39039 **Client:** AMAI **Project:** BMS - BIOPILE SAMPLING

Date / Time Received: 6/7/2013 10:00 **Delivery Method:** FedEx **Airbill #'s:** 7999 3390 7033

Cooler Temps (Initial/Adjusted): #1: (5.5/5.5); #2: (5.8/5.8); 0

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	IR Gun		
3. Cooler media:	Ice (Bag)		
4. No, Coolers	2		

Quality Control _Preservation	Y	N	N/A
1. Trip Blank present / cooler:	☑	☐	☐
2. Trip Blank listed on COC:	☑	☐	☐
3. Samples preserved properly:	☑	☐	
4. VOCs headspace free:	☑	☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☐		☑
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	N	N/A
1. Analysis requested is clear:	☑	☐	
2. Bottles received for unspecified tests	☐	☑	
3. Sufficient volume recvd for analysis:	☑	☐	
4. Compositing instructions clear:	☐	☐	☑
5. Filtering instructions clear:	☐	☐	☑

Comments Samples -1 thru -4 encores were not prepped within 48hrs of sampling

All DI H2O low level vials placed into temporary frozen storage while processing the job in sample management.

Accutest Laboratories
V:732.329.0200

2235 US Highway 130
F: 732.329.3499

Dayton, New Jersey
www/accutest.com

JB39039: Chain of Custody
Page 3 of 4

Sample Receipt Summary - Problem Resolution

Accutest Job Number: JB39039

CSR: Tammy McCloskey **Response Date:** 6/11/2013

Response: Proceed with analysis as noted per Terry Taylor

Accutest Laboratories
V:732.329.0200

2235 US Highway 130
F: 732.329.3499

Dayton, New Jersey
www/accutest.com

JB39039: Chain of Custody
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